BEDDING

PRACTICE INTRODUCTION

USDA, Natural Resources Conservation Service - practice code 310

BEDDING

This practice involves forming the surface of flat, poorly drained land into a series of parallel ridges and furrows. The practice is used to create a warm, dry planting bed for establishment of vegetation.

The ridges and furrows minimize ponding, provide gradients for removing excess water, permit efficient operation of equipment, and helps eliminate mosquito production.

PRACTICE INFORMATION

Bedding is a relatively low cost practice that improves surface drainage and creates an elevated, more favorable planting condition for establishment of field crops, trees, and other types of vegetation. It does not apply to the cultural practice of "listing" or bedding cropland on an annual basis.

Beds run in the direction of the general slope so that drainage can be provided without causing erosion. Engineering surveys are not needed when the general slope of the land is known. However, the furrows are to be graded toward a natural or constructed outlet with sufficient capacity and protection from erosion.

The following pages contain the effects expected to occur when this practice is applied. These effects are subjective and somewhat dependent on variables such as climate, terrain, soil, etc. Users are cautioned that these effects are estimates that may or may not apply to a specific site.

CONSERVATION PRACTICE PHYSICAL EFFECT WORKSHEET

NOTE: *recorded in Microsoft word 6.0 - use tabs to change cells/fields*

STATE	Iowa	FIELD OFFICE		DATE	12/5/96

PRACTICE: 310 - BEDDING	NOTES: This practice does not apply to cropland listing or bedding as an annual cultural pracitce.
RESOURCE: SOIL **RESOURCE CONCERN: EROSION**	**Help Message: Click on form field for choice lists. Tab key to move around. "N/A" is the default entry.**

RESOURCE INDICATORS	**PHYSICAL EFFECTS**
SHEET AND RILL	insignificant
WIND	moderate reduction in wind erosion
EPHEMERAL GULLY	slight reduction in ephemeral gully erosion
CLASSIC GULLY	N/A
STREAMBANK	N/A
IRRIGATION INDUCED	N/A
SOIL MASS MOVEMENT	N/A
ROADBANK/CONSTRUCTION	N/A
OTHER	
RESOURCE CONCERN: **SOIL CONDITION**	
SOIL TILTH	N/A
SOIL COMPACTION	insignificant
SOIL CONTAMINATION	
• SALTS	N/A
• ORGANICS	N/A
• FERTILIZERS	N/A
• PESTICIDES	N/A
• OTHER	
DEPOSITION/DAMAGE	
• ONSITE	significant reduction/onsite deposition damage
• OFFSITE	significant decrease/offsite deposition damage
DEPOSITION/SAFETY	
• ONSITE	N/A
• OFFSITE	N/A
OTHER	
RESOURCE: **WATER** RESOURCE CONCERN: **WATER QUANTITY**	
SEEPS	N/A
RUNOFF/FLOODING	N/A
EXCESS SUBSURFACE WATER	moderate reduction in excess subsurface water
INADEQUATE OUTLETS	slight increase in H20 outlet concern
WATER MGT. IRRIGATION	
• SURFACE	N/A
• SPRINKLER	N/A
WATER MGT. NON-IRRIGATED	N/A
RESTRICTED FLOW CAPACITY	
• ONSITE	significant improvement in surface drainage
• OFFSITE	N/A
RESTRICTED STORAGE	moderate reduction in sedimentation of H20 stroage
OTHER	

RESOURCE: **WATER** RESOURCE CONCERN**: WATER QUALITY**	
RESOURCE	**PHYSICAL EFFECTS**
GROUNDWATER CONTAMINANTS	
• PESTICIDES	N/A
• NUTRIENTS AND ORGANICS	N/A
• SALINITY	N/A
• HEAVY METALS	N/A
• PATHOGENS	N/A
• OTHER	
SURFACE WATER CONTAMINANTS	
• PESTICIDES	N/A
• NUTRIENTS AND ORGANICS	N/A
• SUSPENDED SEDIMENTS	N/A
• LOW DESOLVED OXYGEN	N/A
• SALINITY	N/A
• HEAVY METALS	N/A
• WATER TEMPERATURE	N/A
• PATHOGENS	N/A
AQUATIC HABITAT SUITABILITY	moderate inprovement in Aqua. Hab. Suit.
OTHER	
RESOURCE: **AIR** RESOURCE CONCERN: **AIR QUALITY**	
AIRBORNE SEDIMENT AND SMOKE PARTICLES	
• ONSITE SAFETY	slight decrease in airborn sed.&smoke/safety
• OFFSITE SAFETY	slight decrease in airborn sed.&smoke part./safety
• ONSITE STRUCT. PROBLEMS	slight decrease in struc. problems/dust and smoke
• OFFSITE STRUCT. PROBLEMS	slight decrease in struc. problems/dust&smoke
• ONSITE HEALTH	slight decrease in onsite health/dust and smoke
• OFFSITE HEALTH	slight improvement in offsite health
AIRBORNE SEDIMENT CAUSING CONVEYANCE PROBLEMS	moder. decrease in airborn sediment/convey. prob.
AIRBORNE CHEMICAL DRIFT	N/A
AIRBORNE ODORS	N/A
FUNGI, MOLDS, AND POLLEN	N/A
OTHER	
RESOURCE CONCERN: **AIR CONDITION**	
AIR TEMPERATURE	N/A
AIR MOVEMENT (windbreak effect)	N/A
HUMIDITY	N/A
OTHER	

RESOURCE: **PLANT** RESOURCE CONCERN: **SUITABILITY**	
RESOURCE	**PHYSICAL EFFECTS**
SITE ADAPTATION	sign. improvement in plant suitability/site adapt
PLANT USE	sign. improvement in plant suit. for intended use
OTHER	
RESOURCE CONCERN: **CONDITION**	
PRODUCTIVITY	sign. improvement in plant cond./ productivity
HEALTH, VIGOR, SURVIVAL	sign. improvement in plant health,vigor, survival
OTHER	
RESOURCE CONCERN: **MANAGEMENT**	
ESTAB., GROWTH, HARVEST	slight improvement in plant estab.,growth,harvest
NUTRIENT MANAGEMENT	N/A
PESTS	N/A
THREAT/ENDANGERED PLANTS	N/A
OTHER	
RESOURCE: **ANIMAL** RESOURCE CONCERN: **HABITAT**	
FOOD	N/A
COVER/SHELTER	slight improvement in animal habitat/cover,shelter
WATER (QUANTITY & QUALITY)	N/A
OTHER	
RESOURCE CONCERN: **MANAGEMENT**	
POPULATION BALANCE	N/A
THREAT/ENDANGERED ANIMALS	N/A
HEALTH	N/A
OTHER	
RESOURCE: **HUMAN** RESOURCE CONCERNS**: ECONOMIC CONSIDERATIONS**	
PLAN / COST EFFECTIVENESS	moderately cost effective
CLIENT FINANCIAL CONDITION	moderately cost effective
MARKETS FOR PRODUCTS	N/A
AVAILABLE LABOR	N/A
AVAILABLE EQUIPMENT	slight increase in equip. needed

RESOURCE: **HUMAN** RESOURCE CONCERN: **SOCIAL CONSIDERATIONS**	
RESOURCE INDICATORS	**PHYSICAL EFFECTS**
PUBLIC HEALTH AND SAFETY	N/A
PRIVATE/PUBLIC VALUES	N/A
CLIENT CHARACTERISTICS	N/A
RISK TOLERANCE	N/A
TENURE	N/A
OTHER	
RESOURCE CONCERN: **CULTURAL CONSIDERATIONS**	
ABSENCE/PRESENCE OF CULTURAL RESOURCES	slight less protection of cultural resources
SIGNIFICANCE OF CULTURAL RESOURCES	insignificant
MITIGATION OF NEGATIVE CULTURAL RES. IMPACTS	slightly negative toward cultural res. mitigation
OTHER	